

TRAINING RECEIVERS—*contd.*

Classification.	Mountings and Ships Fitted.	Step Value.		Dial Value. Degrees per rev. of minute pointer.	Degrees of training per rev. of incoming drive.	Remarks.
		Range yds.	Training mins.			
Type "C," Mark IV*.	4-in. H.A. mountings. Capital ships and cruisers on re-armament with single control.	—	3	10°	30°	As Mark IV, but with re-designed casing, having one dial only.
Type "C," Mark V.	2-pdr. pom-pom mountings, Mark VI, Regd. No. 25, and onwards. 2-pdr. pom - pom mountings, Mark VII, Regd. No. 10, and onwards, and 4-in. twin, as Mark V*.	—	6	10°	30°	Similar to "C," Mark III, with 6' step value and upper dial blanked.
Type "C," Mark V*.	4-in. twin mountings in escort vessels on re-armament, and pom-pom mountings as for Mark V receiver. "Hunt" class destroyers, "Lance," "Legion," "Lively," "Marshal Soult."	—	6	10°	30°	As Mark V, but with redesigned casing, having one dial only.
Type "C," Mark VI.	4·5-in., H.A./L.A. mountings. "Tyne," "Adamant" and "Hecla."	—	6	10°	30°	Similar to Mark III, but with 6' step value.
Type "CM," Mark I.	2-pdr. pom-pom, 4-in. H.A., 4·5-in. and 5·25-in. mountings, with magslip transmission.	—	—	10°	30°	Simple receiver with base drive. Similar to "CM," Mark I, elevation receiver, but handed "R" and "L." Similar to "CM," Mark I, with improved pointer visibility.
Type "CM," Mark I*.	2-pdr. pom-pom, 4-in., H.A., 4·5-in. and 5·25-in. mountings. Ships using magslip system of transmission. "Fiji" and "Dido" class cruisers of 1939 programmes.	—	—	10°	30°	
Type "D," Mark I.	4·7-in., C.P. XIV "Acasta" and "Beagle" classes, "Codrington."	25	6	20°	30°	New design. Single dial, single electrical pointers. 4·7-in. ballistics.
Type "D," Mark I*.	4·7-in., C.P. XIV, "Assiniboine,"† "Crusader" class‡, "Duncan"‡, "Defender" class‡.	50	6	20°	30°	Identical with Mark I, except for step values. † Fitted with coincident pointers. ‡ Fitted with opposed pointers.
Type "D," Mark II.	8-in., Mark II*, "Exeter."	25	2	5°	30°	Single dial. Duplicate electrical pointers. 8-in. ballistics.
Type "D," Mark III.	6-in., Mark XXI, "Leander," "Neptune" class.	25	2	5°	24°	Duplex dial. Duplicate electrical pointers. 6-in. ballistics.
Type "D," Mark IV.	4·7-in., twin, Mark XIX mountings. "E"—"K" class destroyers and "Tribal" class destroyers.	50	6	20°	30°	Single dial, single electrical pointers.

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Type "D," Mark IV*.	4.7-in., twin, Mark XX mountings of "L" and "M" classes. Also fitted in "N" class and later destroyers with Marks XVIII and XIX mountings.	50	6	20°	30°	Similar to "D," Mark IV, but with range limits to suit the new 4.7-in., Mark XI gun. This receiver fitted in ships after "M" class in interests of interchangeability.
Type "D," Mark V.	6-in., Marks XXI and XXII. "Ajax," "Perth," "Arethusa," "Hobart," "Sydney," "Galatea," "Southampton," "Newcastle," "Penelope."	25	2	5°	24°	Single dial. Double electrical pointers. Both Marks IV and V are equivalent to a single section of the duplex, Mark III.
Type "EM," Mark I.	"Glasgow," "Sheffield," "Birmingham" and "Aurora."	—	—	5°	24°	New design of receiver with no convergence gear, for use with mag-slip transmission and interchangeable with "D," Mark V, by use of adaptor plate.
Type "EM," Mark I*.	"Liverpool," "Manchester," "Gloucester" and all later 6-in. cruisers, also 14-in. capital ships.	—	—	5°	24°	Similar to "EM," Mark I, but with improved pointer visibility.
Small Type (Modified).	"Egret," "Auckland," "Pelican," "Black Swan," "Flamingo," "Erne," "Ibis" and later vessels of this type. Also "Stork" and "Enchantress" before re-armament 1938 and 1939 programmes, fast mine-layers and "Unicorn."	Hand set.	6	20°	18°	Double dial "M" type transmission. Convergence correction applied differentially by hand. Range dial engraved to suit separation of gun position from director. Slewing gear omitted. Direction of drive may be reversed by altering position of bevel.
Small Type (Modified.)	"Hood" and "Repulse."	Locked at infinity.	4	20°	18°	Used as aid to spotter. Double dial "M" type transmission. Convergence handwheel removed and convergence gear locked at infinity. Slewing gear omitted. Direction of drive may be reversed by altering position of bevel.

Views of bases of training receivers and elevation receivers are shown in Plates 9, 10, 11, 12.

The rotational values per revolution of the clutch are given in the table below :—

Diagram No.	Training Receivers.	Degrees of Training per Revolution of Clutch.
1	" A," Marks I, I*, I**	51·4285
2	" B," Marks I, I*, III	17·7272
3	" B," Mark II	18
4	" C," Marks, I, I*, I**, II, II*	30
5	{ " C," Marks III, IV, IV*, V, V*, VI } " CM," Marks I, I*	30
6	" D," Marks I, I*, II	30
7	" D," Marks III, V	24
8	" D," Marks IV, IV*	30
9	" E.M.," Marks I, I*	24
10	Small Type (modified), both patterns	18

Diagram No.	Elevation Receivers.	Degrees of Elevation per Revolution of Clutch.
11	" A," Marks I, I*, I**	30
12	" B," Mark I	10
13	" B," Mark I*	2·5
14	" B," Marks II, III	10
15	" C," Marks I, I*, I**, II, II*	30
16	" C," Mark III	30
17	{ " C," Marks III*, IV, IV*, IV**, V, V*, V**, VI, VII, VIII, IX } " CM," Marks I, I*, II, III " F," Marks I, II, III }	30
18	" D," Marks I, II, III, III*, IV, V	30
19	{ " E," Marks I, I*, I**, II, III, IV } " EM," Marks I, II, III }	15